|  |  |  |  |
| --- | --- | --- | --- |
|  | West Wing |  | East Wing |
| 2nd Floor | Penkava  Cell Phone  .4-.5 | Giamati  Manda  Fuzzy Lamp  .15-.18 | Hlas  Nicole Owen  Desk Lamp  .88-.93 |
| 1st Floor | Ahrendt  Tong  Classroom Light  .08-.09 | Kraker  Computer Light  .25-.3 | Charles Serros  Sherrie Serros  Night Light  .006-.0071 |

The chocolate was found in the room with the cell phone.

The only people at school at the time were: Charles Serros, Hlas, Giamati, Penkava, Kraker, Ahrendt, Manda, Nicole Owen, Tong, and Sherrie Serros.

Kraker and Hlas were in the room with the cell phone, the computer light, or the desk lamp at the time the chocolate was stolen (not together).

Nicole was either in the room with the cell phone, computer light, or the room with the desk lamp.

Penkava was either in the room with the cell phone or the room with the desk lamp.

Charles and Sherrie are in the room with the night light.

Giamati was in the room above Kraker.

Nicole was with a man.

Tong was also with a man.

Manda was upstairs.

There was only one person in the room with the computer light.

Hlas is allergic to chocolate.

|  |  |
| --- | --- |
| **Light Source** | mh/  (from 10cm away) |
| Desk Lamp | .88-.93 |
| Lava/fuzz Lamp | .15-.18 |
| Night Light | .006-.0071 |
| Computer Light | .25-.3 |
| Classroom Light | .08-.09 |
| Cell Phone | .4-.5 |

Light Source Exploration

Directions:

We need your help to figure out who stole Sherrie’s candy!

1. Come up to the front to collect a light probe for your group to use (Any questions can be directed to your senior forensic advisors).
2. Rotate to each lab stations until all light sources have been tested by your group. Results may vary; multiple trials may be necessary.
3. Record the readings in the table provided.
4. After you have found all of your measurements, check with your senior forensic advisor to verify your results.
5. If your results are correct, you will be given the necessary tools to start solving the mystery.

|  |  |
| --- | --- |
| **Light Source** | **Reading (mH/cm2)** |
| Desk Lamp |  |
| Lava/fuzz Lamp |  |
| Night Light |  |
| Computer Light |  |
| Classroom Light |  |
| Cell Phone |  |

Want to learn more? Check this out!  
<http://www.horiba.com/scientific/products/forensics/light-sources/forensic-light-source-applications/>

Matrix Logic: Light Source Clue

C:\Users\vandenlk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\11J0ESNH\MC900282178[1].wmf

*Light Source Layout*

|  |  |  |  |
| --- | --- | --- | --- |
| *2nd Floor* | .4-.5 | .15-.18 | .88-.93 |
| *1st Floor* | .08-.09 | .25-.3 | .006-.0071 |

**Clues:**

1. The chocolate was found in the room with the cell phone.
2. The only people at school at the time were: Charles Serros, Hlas, Giamati, Penkava, Kraker, Ahrendt, Manda, Nicole Owen, Tong, and Sherrie Serros.
3. Kraker and Hlas were in the room with the cell phone, the computer light, or the desk lamp at the time the chocolate was stolen (not together).
4. Nicole was either in the room with the cell phone, computer light, or the room with the desk lamp.
5. Penkava was either in the room with the cell phone or the room with the desk lamp.
6. Charles and Sherrie are in the room with the night light.
7. Giamati was in the room above Kraker.
8. Nicole was with a man.
9. Tong was also with a man.
10. **C:\Users\vandenlk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\LY98F6G3\MC900290250[1].wmf**Manda was upstairs.
11. There was only one person in the room with the computer light.
12. Hlas is allergic to chocolate.

**Who will end Sherrie’s misery?!**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Giamati | Penkava | Hlas | Ahrendt | Kraker | Charles | Nicole | Manda | Tong | Sherrie |
| Giamati | X |  |  |  |  |  |  |  |  |  |
| Penkava |  |  |  |  |  |  |  |  |  |  |
| Hlas |  |  |  |  |  |  |  |  |  |  |
| Ahrendt |  |  |  |  |  |  |  |  |  |  |
| Kraker |  |  |  |  |  |  |  |  |  |  |
| Charles |  |  |  |  |  |  |  |  |  |  |
| Nicole |  |  |  |  |  |  |  |  |  |  |
| Manda |  |  |  |  |  |  |  |  |  |  |
| Tong |  |  |  |  |  |  |  |  |  |  |
| Sherrie |  |  |  |  |  |  |  |  |  |  |
| Fuzzy |  |  |  |  |  |  |  |  |  |  |
| Cell Phone |  |  |  |  |  |  |  |  |  |  |
| Desk Lamp |  |  |  |  |  |  |  |  |  |  |
| Classroom Light |  |  |  |  |  |  |  |  |  |  |
| Computer Light |  |  |  |  |  |  |  |  |  |  |
| Night Light |  |  |  |  |  |  |  |  |  |  |

**Rules:**

1. Put an ‘X’ in the options that are not possible (For example: Giamati and Giamati are the same person and would not be in the same room together; thus, this box gets an ‘X’).
2. No more than two people are allowed in a room.
3. Only one person committed the crime; therefore, if two people are in the same room, neither is the culprit.